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System description

KEETEC TS 8000 is car alarm with 2-way trasmission assigned for vehicles with 12V power supply. The system senses doors, hood, trunk of vehicle. TS 8000 has a shock sensor and possibility for additional sensor connection. The system is protected by hopping code of second generation. The car alarm cut start of engine at vilation of any sensed zone and triggers the alarm by sound and optical alerting. The vehicle status is possible to monitor on display of LCD transmitter with range to 2000m. If the vehicle is violated, the display informs violated zone by sound, optical and vibration alerting. The LCD transmitter controls also central lock and trunk and allows remote start of vehicle. KEETEC TS 8000 is applicable for installation to all type of vehicle (petrol, diesel, TURBO engine, LPG engine) with manual and automatic gear. The duration and the start time of remote start is possible set-up. The system has many other function written in this manual.

LCD transmitter description

- illuminated LCD display
- vehicle status and range display
- violated input display
- sound signalling (ON/OFF)
- vibration signalling (ON/OFF)
- time, alarm-clock, timer (ex. for parking)
- buttons blocking
- function SMART activation
- interior temperature of vehicle display
- remote start time display
- driver calling display
- valet mode display
- turbo protection display
- program menu
- system control
- battery in trasmitter - 1,5V AAA

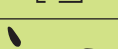
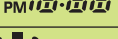
Button No / Operation Icon	1times (one second)	2times (Double click)	Two seconds	Page
1	Arming / Disarming Lock / Unlock	Arming/Disarming (No chirp mode)	Panic mode	7
2	Stick reservation	Remote start OFF Convenience start (IG ON)	Remote start ON	9,10,17
3	Car finder (Arm mode)	Shock sensing OFF (Two stage sensing OFF)	Trunk unlock	7,8
4	Vehicle status confirmation	Temperature check	Parking timer mode	8,16

5					
F LCD Lamp ON 1time	Continues Setting mode	2 seconds	HoL	Button hold ON (F)	14
		4 seconds	Atb	Automatic buttons locking (F)	
		6 seconds	SIG	Signal check ON (●)	
		8 seconds	bur	Buzzer OFF	
		10 seconds	ALm	Alarm setting ON	
		12 seconds	CLOCK	Current time setting	15
		14 seconds	ALARM	Alarm time setting	
		16 seconds	START	Start time setting	
	3times (Program setting mode)	Button 4	M	Move to next menu	19
		Button 3		Move to next function	
		Button 2		Setup OFF or selection	
		Button 1		Setup ON or selection	
		Button 5	F	Setup finish	

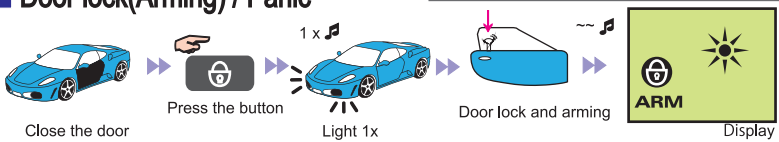
1+2 (2 seconds)	Vehicle selection mode (within 30 sec from turn ignition OFF)			12
	Button 1	Normal vehicles	Standby time setting for 4 seconds	
	Button 2	Diesel vehicles	Standby time setting for 8 seconds	
	Button 3	Special vehicles	Standby time setting for 8 seconds Re-Lock setting after remote start	
	Button 4	LPG	LPG function setting(30seconds delay)	

1+4	+ M(✱) 2 seconds	Repeat start operation (8times / 24 hours) RPM setting (in valet mode)	13
5+3	F + 2 seconds	LCD back light (ON / OFF)	16
5+4	F + M 2 seconds	Vibration mode (ON / OFF)	
5->1	F	Alarm of siren at shock sensor violation (ON/OFF)	
5->3	F	AUX-1output (One way transmitter: Press button 4✱ for 2 seconds.)	17
5->4	F M	AUX-2 output (One way transmitter: Press button for 4 ✱ for 2 times)	17
5->2	F	Time remote start (ON/OFF)	12
1+3	+ 2seconds	Learning (1-way trasmitter) / Factory setting	20

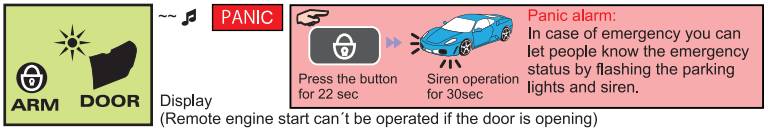
Icons of LCD

	Door lock(Arming) Signal check ON	CLOCK	Adjustment mode of current time
	Door unlock (Disarming)	ALARM	Adjustment mode of alarm time
	Remote start	START	Adjustment mode of automatic start time
	Trunk unlock		Valet mode
	Door open		Battery status
	Shock sensing		Blink icon
	Call indicator (Knock)		Button hold Function mode
	Wake-up alarm setting ON		Time, Temperature, Program menu
	Automatic start setting ON		Timer mode
	Siren OFF (When shock sensing)		RF transmit
	Buzzer OFF		Progressing time of the remote start
ACCESS	Smart access ON	AUX1	AUX-1
TURBO	Turbo ON	AUX2	AUX-2
TEMP	Temperature Start ON	°C	Temperature
ERR	Signal error		Vibration mode ON

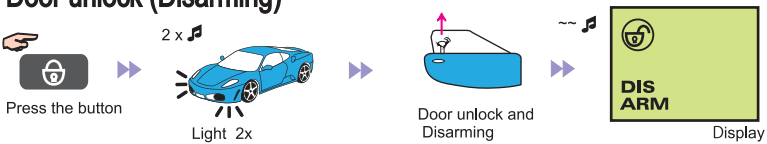
Door lock(Arming) / Panic



- Delay of input activation (doors contacts, ignition) is Setting in range 5-45 sec. of system activation (function 3-8). Default delay: 5 sec. If doors are opened, starts sound alerting after expiry of delay.


~~
PANIC
ARM
DOOR
Display
(Remote engine start can´t be operated if the door is opening)
Press the button for 22 sec
Siren operation for 30sec
Panic alarm:
In case of emergency you can let people know the emergency status by flashing the parking lights and siren.

Door unlock (Disarming)

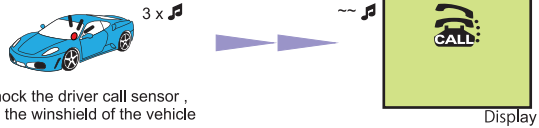


- If you don´t open the door within 30sec, after the disarming, the vehicle enters alarm mode again with the door is automatically locked.
- Mute arm / disarm: Press 2x button: (within 1 sec.).

Trunk unlock (Car finder)

- The shock sensor will turn OFF after trunk open by transmitter (when system is armed). The shock sensor will turn ON after trunk closing.
- **Car finder function**: If you press the trunk button for 1sec in arm mode, you can confirm current status of vehicle with “Beep” sound and light.

Driver calling(Knock)



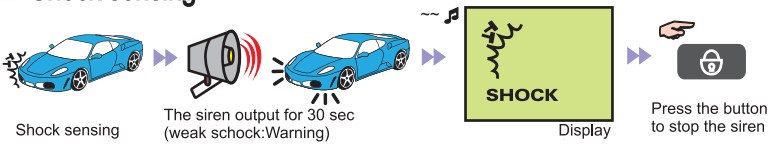
Knock the driver call sensor , on the winshield of the vehicle

Display

- After arm delay time(5 - 45 seconds), this function is operated after 20 seconds

Driver calling is stopped at the remote engine start.

Shock sensing



Shock sensing

The siren output for 30 sec (weak schock:Warning)

Display

Press the button to stop the siren

- After arm delay time (5 - 45), thus function is operated after 20 seconds. Arm delay time default:5 seconds, See the table 3-8.)
- Shock sensing OFF: If you want shock sensor is OFF(1time) you need to press the trunk button 2times in arm mode.
- weak shocks sensing OFF: press 2x button
  strong shocks sensing OFF: press 2x button again

Shock sensing is stopped at the remote engine start.

When input is triggered

When the input is triggered in the arming mode

The siren output for 30sec

Door trigger

Trunk trigger

Hood, brake, Ig trigger

- The alarm repeated 3x at each inputs violation.

Press the button to stop the siren

Checking the vehicle status

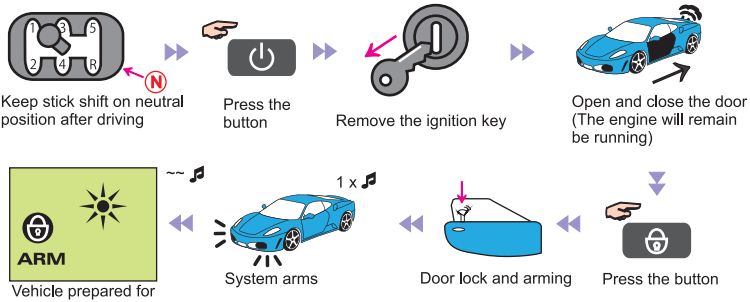
Press the button

Current status of vehicle is marked by icon

LCD back light ON

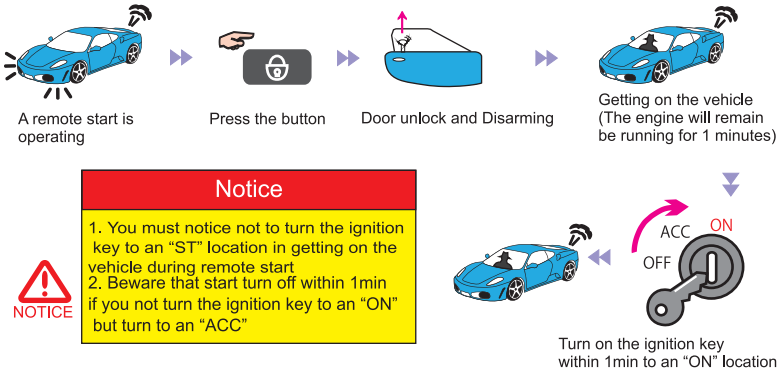
- ERR This icon is turned on when it can´t receive reception after operate transmitter.

Manual reservation mode (function 1-5 - OFF)



- Reservation mode will OFF automatically:
  - If the key is moved out of the ignition and any doors are opened.
  - If the door will open before reservation mode finish reservation mode will cancel of safety reasons).

Getting on the vehicle during remote start

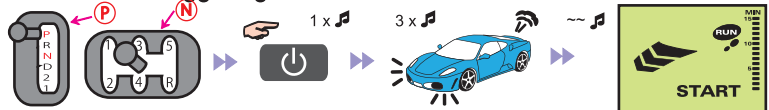

A remote start is operating
Press the button
Door unlock and Disarming
Getting on the vehicle (The engine will remain be running for 1 minutes)
NOTICE
Notice
1. You must notice not to turn the ignition key to an “ST” location in getting on the vehicle during remote start
2. Beware that start turn off within 1min if you not turn the ignition key to an “ON” but turn to an “ACC”
ACC
ON
OFF
Turn on the ignition key within 1min to an “ON” location

- Engine start safety mode: If you press the brake pedal at the remote start, engine start program wil be completed with engine turn off.
  (This function will be only operated in case brake sensing wire is connected.)

- Light blink for 15 minutes after remote start and the engine start turn off automatically after the 15minutes. (Progress time is marked to icon.) The buzzer sound is outputted from the transmitter when the remaining start is 5min. (If you want change start run time, see 3-1 of the program menu.)

- Engine start turn OFF: Press the button twice
  The start turn OFF with 2 chirps in the vehicle.
- Start condition: All sensing (Door, trunk, brake, hood) must be normally operated. If start isn´t operated at once, starting repeatedly your car 4times by increase each 0.3 seconds.

Remote start triggering



Keep stick shift on “P” or “N” after driving

Press the button for 2sec

The engine start is operated after 4sec(see program 3-2, 3-3)

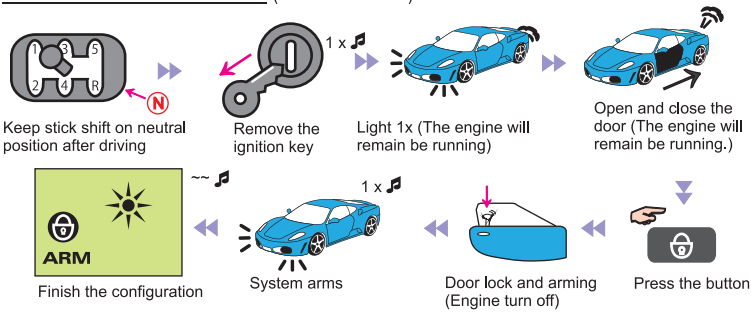
Display

Reservation mode for vehicles with manual gear

Before remote start, the reservation mode is necessary to trigger in vehicles with manual gear.The vehicle is protected before engine start with speed.

- Automatic reservation mode: start allways at engine OFF
- Manual reservation mode: reservation mode setting

Automatic reservation mode (function 1-5 - ON)



Keep stick shift on neutral position after driving

Remove the ignition key

Light 1x (The engine will remain be running)

Open and close the door (The engine will remain be running.)

Finish the configuration

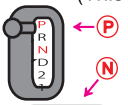
System arms

Door lock and arming (Engine turn off)

Press the button

Start reservation of the LPG vehicle (Optional)

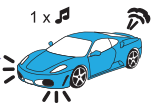
- In Summer: The reservation ist the same as normal vehicle kinds´s
- In winter: Remaining gas in gas line is frozen if the temperature falls below the zero. For prevention it, you had better do as follows. (This function is operated when you install LPG gas velb ON/OFF relay.)



Keep stick shift must be on "P" or "N"

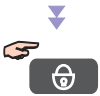
Turn off the LPG switch

Take out the key from ignition

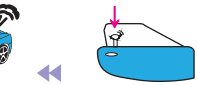


The engine will remain be running

Open and close the door (The engine will remain be running)



Press the button

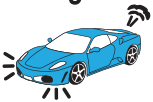


Door lock and arming (The engine will remain be running)

The engine will turn off automatically within 30sec if LPG in gas line is empty

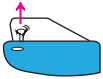
Display

Getting on the vehicle during LPG start



A remote start is operating

Press the button



Door unlock and disarming

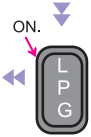
Getting on the vehicle

Notice

1. You must notice not to turn the ignition key to an "ST" location in getting on the vehicle during remote start
2. Beware that engine start turn off within 1min if you not turn the ignitionkey to an "ON" but turn to an "ACC"

NOTICE

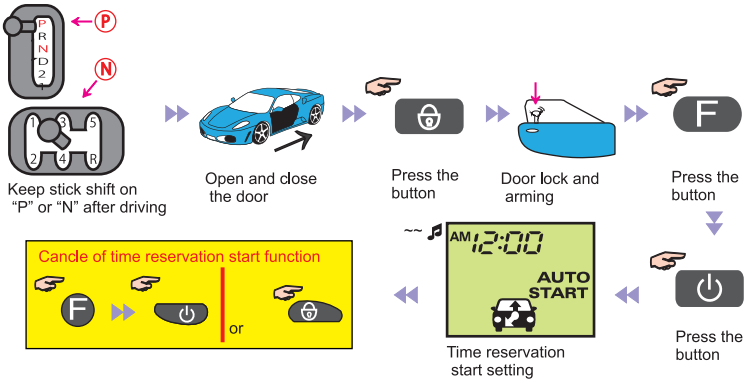
Ignition key ON within 1min



LPG switch ON

- Engine start safety mode: If yoy press the brake pedal at the remote start, engine start program will be completed with engine turn off. (This function will be only operated in case brake sensing wire is connected)

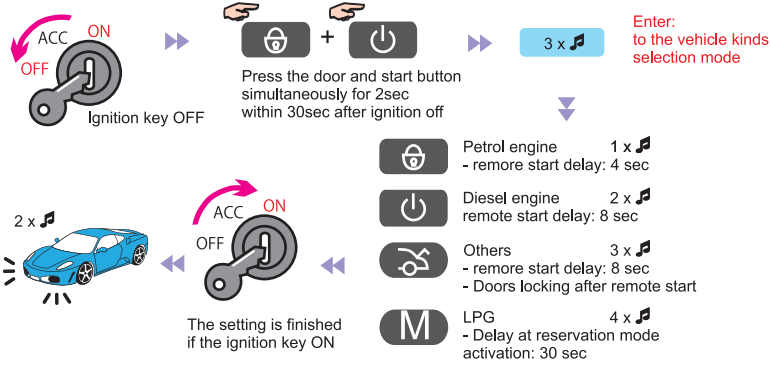
Time reservation start setting



- Use the function after start time setting (See 15 page start time setting).This function is operated only one time after the setting for the safety.
  It is convenient if you use in the situation which remote control isn´t operated.)
- In this case of the stick vehicle, you can setting only after reservation.

- Icon AUTO START turn ON, if automatic start is setting.

Vehicle selection mode

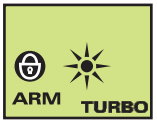


Auto turbo function

Ignition key OFF

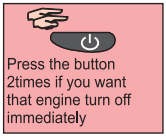
Open and close the door

Press the button



Display

- This function is assigned for vehicles with turbo engine.Turbo protection before heating and next damage – the engine stays run and after arming turbo will cooled.



The engine turn off after 2mins

- Function ON is displayed by icon **TURBO**
  Duration setting of engine run: 1-10 minutes, program menu 3-7
  Attention: If the system is controled by original transmitter of vehicle then arming is not possible during engine run (for turbo protection).

Repeat start operation

This function is operated in arm mode

Press the door and M button simultaneously for 2sec in arm mode

Auto start setting

If this function is set, start will automatically operated total 8times for 24hours. And set function will cancel at the disarm.

- This function is operated each every 3hours between 24hours.
  Engine run duration is depend on function setting 3-1.

Valet mode (Emergency deactivation)

Ignition ON

Press and hold the button for more than 5sec
Valet ON/OFF
See Digital code valet mode of 19 page

Display

The function is normally functioned
if you repeat again.
(Valet icon is off on the display)

ON: 1 x
OFF: 2 x

- In the case of the valet mode, you can operate only door lock/ unlock and trunk open by transmitter.
- Use this function when you leave your car to other person that don´t know how to use this tranmitter.
- Code valet mode using, see page 23.
- This process is used also for emergency system deactivation.

Setting mode

Button hold

Press the button for 2 sec

~~ 1x

Remove your hand when HoL is marked

- If the button hold mode is ON, F is displayed and user can operate only F or M button
- If you want to cancel it, press the F button for 2sec one more time (F is OFF)

Automatic buttons locking

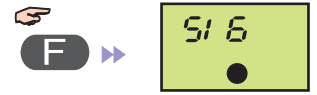
Press the button for 4 sec

~~ 1x

Remove your hand when AtO is marked

- If the the automatic buttons locking is ON, the display shows icon F and active buttons are only F and M
- If would you like OFF blocking, press button F again over 4 sec.

Signal check



Press the button for 6 sec

~~ 2x

Remove your hand when SIG is marked

- If the signal check mode is ON, ● is displayed and the transmitter check the communication condition by commuting with main control unit each every 60 min.
- If you want to cancel it press the F button for 6 sec. (● is off).
- If the signal can not receive, the ERR icon will be displayed with buzzer sound.

Buzzer ON/OFF

Press the button for 8 sec

~~ 3x

Remove your hand when bUr is marked

- If the buzzer is OFF, BZ is displayed and the transmitter do not output any sound.
- Mute mode is signalized on the display by icon BZ
- If you want to cancel it, press the F button for 8 sec. (BZ is OFF)

Alarm ON/OFF

Press the button for 10 sec

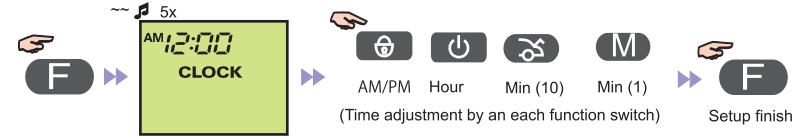
~~ 4x

Remove your hand when ALm is marked

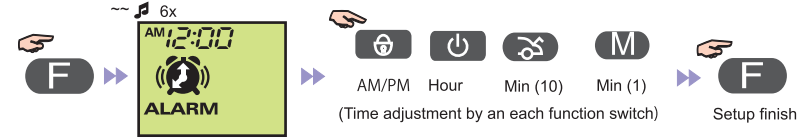
- If the alarm is ON, ALARM is displayed and the melody is outputted at setting time.
- If you want to cancel it, press the F button for 10 sec (ALARM is OFF)

- Transmitter will return automatically to current time if you don´t press the button for 10sec after setting mode.

Current time setting

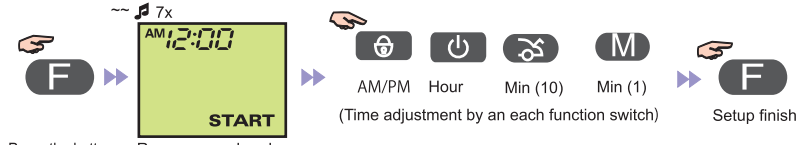


Alarm time setting



- Setting time is inputted in memory.
- The icon ALARM is marked in transmitter when alarm is “ON”. (page 14).

Start time setting



- Set up time to need time reservation start (Setting time will memory in the IC.).
- Set up by the transmitter when you need the time reservation start (page 12).

Timer function

Press the button for 2 sec

The start of the timer operation

Press the button for 2sec again (Function finish)

- This function is convenient when confirmation of the parking time and driving time. (The timer is marked 12hours to minute).

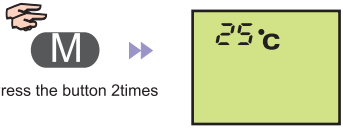
Siren (ON/OFF)

Press the buttons step by step

Siren OFF

- When turned siren off, sound of the shock sensor is only stopped (The state is displayed to the LCD 2-way transmitter).

Temperature check



Press the button 2times

Temperature is displayed to Celsius

LCD Lamp ON/OFF

Press the F and trunk button simultaneously for 2 sec.

LCD lamp OFF: 1 x ♪
LCD lamp ON: 2 x ♪

Vibration mode

Press the F and M button simultaneously

- This icon is displayed on when vibration mode is on and buzzer off. (At the door, trunk, hood, brake strong shock sensing)

Aux-1 output

AUX-1 remote controled additional output, can be used for control of equiments in vehicle (independent car heater...)

Activation (deactivation)

AUX1

AUX-1 will be outputted for 1sec. If you want to output time, change to 3-5 of the program menu.

One way transmitter:
Press button (✳) for 2 sec.

This icon is turned on when you operate AUX1 output.

Aux-2 output

AUX-2 remote controled additional output, can be used for control of equiments in vehicle (independent car heater...)

Activation (deactivation)

AUX2

AUX-2 will be outputted for 1sec. If you want to output time, change to 3-6 of the program menu.

One way transmitter:
Press button (✳) for 2times

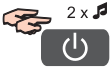
This icon is turned on when you operate AUX2 output.

SMART acces mode

- SMART function provides automatic arming in move away from vehicle and disarming come near to vehicle (function ON/OFF - program menu 4-6)
  If you use this function, the transmitter battery life will be short.

ACCESS

Convenience start



Step on the brake and press the button 2times

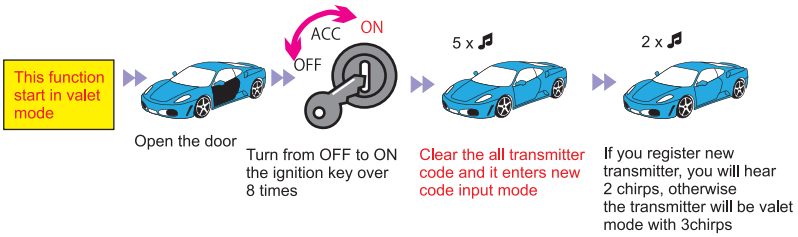
- Comfort start is possible ON, when engine run.
- Comfort start is possible ON, when engine run.
  It is used when you need keep engine run after locking and arming (engine run duration is depended on function setting in program menu 3-1).
- You can use the comfort start, when you want go away from car on short time and you don´t want engine turn OFF.

Cold & Hot start

TEMP

- Automatic vehicle start at temperature decrease under -20° C or increase +50° C. Minimal temperature is possible to set from -4° to -24° C (function 3-4).
- Activate this function in program menu 1-7.

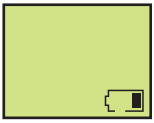
Transmitter code learning


This function start in valet mode
Open the door
ACC
ON
OFF
Turn from OFF to ON the ignition key over 8 times
5 x
Clear the all transmitter code and it enters new code input mode
2 x
If you register new transmitter, you will hear 2 chirps, otherwise the transmitter will be valet mode with 3chirps

- This function is used when you lose transmitter or break down. You can use this function though siren is continually operated.
- The transmitter input is possible to each maximum 2pcs both one way and two way transmitter.

Low battery indicator

- If the operation range of transmitter is shortened or the buzzer sounding was lower than normal, please replace the battery to new one.
- You must adjust current time again after battery interchange.
- The alkaline battery life is 2-3 months and exchange the battery at once if the icon blinks.



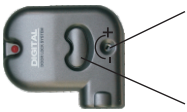
Display

1-Way transmitter description

- system control
- system setting
- battery in transmitter - 2x CR 2016, 3V

(transmitter is not included!)

RPS module



Operation

1) Arming and locking by RPS module
   1. Press button of RPS module 1x. LED indicator will light up and the display is rotated fast (this function is maintained for 30 sec.)
      If you will press button within 30 sec., process is canceled.
   2. Knock on window (on RPS module) 5x within 30 sec.
      If all doors are closed, the vehicle will arm and lock.
2) Disarming and unlocking by RPS module
   1. Knock on window (on RPS module) 5x within 30 sec.
      (You will activate function „driver calling“ by the first knock).
   2. The display will show digits 0 - 9, rotation in 2 sec. When will display the first digit of your code, knock on module. The setting is accepted by flash 5x of this digit. The display will start rotate digits 0-9 again.
   3. Set all 4 digits of code according to step 2. If the code is taken correctly the car alarm is disarmed and doors unlocked.

ATTENTION: If you will set incorrect code 5x (during 1 hour), The RPS module displays “U" and all functions of RPS module are deactivated for 1 hour. The functions will retrieve by pressing of button.

3) Security code change
   1. Press button of RPS module 20x. LED indicator will flash 2x.
   2. Knock on window (on RPS module) 5x within 30 sec.
   3. The display will show digits 0 - 9, rotation in 2 sec. When will display the first digit of your code, knock on module. The setting is accepted by flash 5x of this digit. The display will start rotate digits 0-9 again.
   4. Set all 4 digits of code according to step 3. After last digit setting is a new code saved. If you would like change the code, repeat steps 1-4.

ATTENTION: The security code sets driver of vehicle. (default security code is "1234".)

Program reset

- Program reset of the main control unit: If you press and button simultaneously for 2 seconds within 30sec after ignition OFF at the valet mode, all program will default setting

- Program reset of the LCD transmitter: If you reset main control unit, you must reset of the transmitter. Put battery in with press M button after remove the battery of the transmitter and then all program of the transmitter will default setting.

Program setting

- Program setting method is different according to transmitter. Two-way and way). Transmitter must be disarm at the program setting.

LCD 2-WAY TRANSMITTER

Step 1: Press the F button 3x

Step 2: You can change to menu of the P-1, P-2, P-3, P-4 by press the M button.

Step 3: Choose the function you want by press the trunk button

Step 4: Choose the program state by press the button 1(ON) or button 2 (OFF)

Step 5: Function you choose will be transmit a main and setting is completed by press the F button.

ONE-WAY TRANSMITTER

One way transmitter can be change only in P-1 and P-2 of the program menu.
Program menu step is marked by chirp sound (ex: Menu 1-1 = 1x 1-2 = 2x ..)

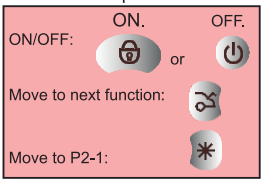
Step 1

Ignition key ON

Step 2

Press the 1 and 3 button simultaneously for 3sec within 30sec after ignition ON

Step 3



Step 4

The setting is completed if the ignition key OFF or turn off automatically after 5sec.

Program. menu	LCD Display	P-1 Remote start	Factory default	Optional
			Press button 1 or 2	
1-1	tur	Auto turbo protection	OFF	ON
1-2	StL	Door re-lock after remote start	OFF	ON
1-3	ACC	Trunk output change	OFF	ON
1-4	LPG	LPG reservation mode	OFF	ON
1-5	Atr	Auto reservation mode	ON	OFF
1-6	Het	Glow plug sensing at remote start	OFF	ON
1-7	tEm	Cold & Hot start	OFF	ON
1-8	IGt	Output “ignition 2”at the disarm	ON	OFF

Program. menu	LCD Display	P-2 Basic function	Factory default	Optional
			Press button 1 or 2	
2-1	CCH	Digital code valet mode	OFF	ON
2-2	IGL	Ignition lock/unlock	OFF	ON
2-3	PSA	Passive arming	OFF	ON
2-4	PSL	Passive lock	OFF	ON
2-5	LdA	Last door arming	OFF	ON
2-6	CHP	Chirp sound	ON	OFF
2-7	dUP	Double unlocking pulse	OFF	ON
2-8	dLP	Double locking impulse	OFF	ON

Program. menu	LCD Display	P-3 Timing settings	Factory default / Press button 1 or 2
3-1	Stt	Run time for remote start	2 10 **15** 25 35 45 (Minutes)
3-2	Std	Remote start delay	**4** 8 12 15 18 20 (Sec.)
3-3	Sto	Start impulse time	**0.4** 0.5 0.7 1.0 1.4 2.0 (sec.)
3-4	CSt	Cold start temperature settings	-4 -8 -12 -16 **-20** -24 (°C)
3-5	Au1	Aux 1 output (LCH=Continue)	**1** 5 10 20 40 LCH (sec.)
3-6	Au2	Aux 2 output (LCH=Continue)	**1** 5 10 20 40 LCH (sec.)
3-7	ttt	Turbo time setting	1 **2** 3 5 8 10 (Minutes)
3-8	Amd	Arm delay time setting	**5** 10 15 25 35 45 (sec.)

Program. menu	LCD Display	P-4 Advanced functions	Factory default	Optional
			Press button 1 or 2	
4-1	SPo	Siren pulse output	OFF	ON
4-2	AEd	Automatic engine disable	OFF	ON
4-3	Lot	Unlock pulse	0,5 sec.	3,5 sec.
4-4	BPs	Arm reminder	OFF	ON
4-5	dom	Dome light is changed to armed output	OFF	ON
4-6	SAC	SMART acces mode ON/OFF	OFF	ON
4-7	CAS	Locking pulse	as unlock	20 sec.
4-8	Acd	Arm cancel mode at door open	OFF	ON

Program menu (P-1) - remote start

- **1-1 Auto turbo protection**
  If this function is ON, the function maintains engine ON after the door is locked. The turbo time is possible to change at program menu 3-7.

- **1-2 Door re-Lock after** (installation only)
  If this function is ON, The car alarm will lock doors automatically after remote start ending. This function is necessary to activate at vehicles, where the central lock wil unlock after turn ignition OFF.

- **1-3 Trunk output change** (installation only)
  If this function is ON, (+) will always output at the remote start (orange wire NR.3, connector CN2).

- **1-4 LPG reservation mode** (optional)
  If this function is ON, the engine will turn OFF automatically within 30 sec., if LPG in gas line is empty when the engine turn OFF.
  (This function is operated when you install LPG gas valve ON/OFF relay).

- **1-5 Auto reservation mode**
  If this function is ON, the reservation mode for remote start run always after turn ignition OFF (The engine stays ON till last door closing - max. 2 min.).
  If this function is OFF, the reservation mode is possible a manual activation (see user manual - reservation mode for vehicle with manual gear).

- **1-6 Glow plug sensing at remote start** (installation only)
  If this function is ON, starter motor is operated after glow plug is OFF at the remote start. For this function is necessary to connect violet wire nr. 11 (connector CN5).

- **1-7 Cold & Hot start**
  If this function is ON, engine automatically start if temperature become under -20° C or more then +50°C at the arm mode. The cold start temperature is possible set-up from -4 to -24°C (program menu 3-4). The engine ON duration is depend of function setting 3-1. This function is automatically OFF after total 8x operation.

1-8 Output "IGNITION 2" at the disarm (installation only)
If this function is OFF, output "Ignition 2" is OFF at the disarm during remote start.

Program menu (P-2) - Basic functions

2-1 Digital code valet mode
If this function is OFF, the valet mode is operated to ON/OFF if you press the valet button for 5 seconds at the ignition key ON.

If this function is ON, set the security code at valet mode activation.
Digital code valet mode activation:

1. Press the switch for 5 seconds when the digital control module is standby mode, and then LED blinks one time and the display segment is rotated fast. (This function is maintained for 30 seconds.).
2. Knock the sensor more than 5 times after get off the car within 30 seconds, then the digital code start count. (If you press the switch again within 30 seconds LED blinks 2 times and digital valet function is canceled).
3. During the numbers automatically count with delay each 2 seconds from 0 to 9, knock the sensor at the registered CODE. Then selected number blinks 5 times and it automatically repeat next number from "0".
4. Select the remainder 3 CODES as upper STEP 3. If you select all CODES in order, valet mode is ON. If you want to cancel the valet mode, press the valet button for 5 seconds at the ignition key ON.

2-2 Ignition lock/unlock
When turned ON, the doors will be locked when step on brake after the ignition is turned ON. The doors will be unlocked when the ignition is turned OFF. Getting on the vehicle during remote start: Door is locked when ignition key ON and then step on the brake.

2-3 Passive arming
When turned ON, the system will arm automatically after 30seconds if the ignition key is OFF and door open/close.

2-4 Passive lock
When turned ON: When the system is arm by passive arming, door lock will be automatically operated.

2-5 Last door arming
When turned ON, if all door is closed at the disarm, door lock will be operated with arm after 30 seconds.

- **2-6 Chirp sound**
  In the default setting, siren of the vehicle will output chirp sound when you operate transmitter.

- **2-7 Double unlocking pulse** (installation only)
  If this function is ON, each door unlock = 2 impulses. The function is activated, when unlock impulse is setting on 0,5 sec. (program menu 4-3).

- **2-8 Double locking pulse** (**installation only**)
  If this function is ON, each door lock = 2 impulses. The function is activated, when unlock impulse is setting on 0,5 sec. (program menu 4-3). If locking pulse is setting in 20 sec., the first impulse is 0,5 sec and the second is 20 sec.

Program menu (P-3) - Timing settings

- **3-1 Run time for remote start**
  This function adjusts run time of the vehicle at remote start, cold start and time reservation time.

- **3-2 Remote start delay**
  This function adjusts delay at remote start, delay time from turn ignition ON to engine start.

- **3-3 Start impulse time** (installation only)
  Time setting of start impulse (at remote start by tach or noise sensing).

- **3-4 Cold start temperature settings**
  Minimal temperature setting for start of Cold & Hot program.
  The function Cold & Hot start must be ON (1-7).

- **3-5 Aux 1 output** (**installation only**)
  Duration of Aux1 output setting. If CLH is adjusted, Aux1 output is constant (the autput will be activated till disarm by transmitter).

- **3-6 Aux 2 output (installation only)**
  Duration of Aux1 output setting. If CLH is adjusted, Aux1 output is constant (the output will be activated till disarm by transmitter).

- **3-7 Turbo time setting**
  Turbo time setting for auto turbo timer programm (1-1). Default setting is 2 min.

3-8 Arm delay time setting
Arm delay time delay of sensing for doors, trunk, hood and ignition.
Shock sensor will work 20 sec. after delay time.

Program menu (P-4) - Advanced functions

4-1 Siren pulse output
In the default setting, siren will be continually outputted for 30 seconds when alarm is operated. When turned ON : Siren will be outputted to pulse

4-2 Automatic pulse disable
When turned ON, starter kill will be automatically outputted 30 seconds after ignition OFF with LED blink slowly.
.

4-3 Unlock pulse (installation only)
If this function is ON, unlocking impulse length is 3,5s. If this function is OFF, unlocking impulse length is 0,5s.

4-4 Arm reminder
If this function is ON, the car alarm will sound 2x, after each open and close door over 10 sec., it reminds that is OFF. If the function 2-3 or 2-5 is ON, The reminder doesn´t work.

4-5 Dome light is changed to armed output (installation only)
If this function is ON and car alarm is armed, output for dome light is turned ON constantly (-) (black wire nr.2, connector CN5).

4-6 SMART access mode ON/OFF
When turned ON, LCD display ACCESS icon. And the main control unit sense the transmitter when transmitter is near by vehicle, the system will be automatically disarm (Unlock). If the transmitter is far from vehicle, the system will be arm. If you use this function, the transmitter battery life will be short.

4-7 Locking pulse
If this function is ON, locking impulse length is 20 sec. If the function is OFF, locking impulse is the same as unlocking impulse.

4-8 Arm cancel mode at door open
When turned ON, if the door is open, arm is not operated by transmitter. In this case, you can operate arm after closing the door.

E27 97RA-01*1027*00

⚠ WARNING: Carefully read following instructions and technical specifications in this manual before installation. The system install and use in agreement with this manual only. The system is assigned for installation to all vehicles with 12V power supply. The system has to be connected on 12V and to ground. Producer neither seller of the system are not responsible for demages caused by incorrect installation, using or operating of this product different to install or user´s manual. Unprofessional operation to the system or modification of the system can demage system or electrical system of vehicle and cause warranty loss. For correct work of this system we commend installation in the professional service. The bypass module is necessary to use in vehicles, that have factory immobilizer for remote start. Don´t cut a loop W1 in control unit of car alarm when the system is installed to vehicle with manual gear.

SYSTEM DESCRIPTION

KEETEC TS 8000 is two-way car alarm for vehicles with 12 V power supply. The system is possible to connect on vehicle CAN BUS link by CAN BUS module (M CAN). IF car alarm is connected on CAN BUS of vehicle, then the system is possible to control by original transmitter and LCD transmitter works like a pager. If car alarm is connected on CAN BUS link, then door contacts, hood and trunk is not necessary to connect (not all vehicles). The car alarm allows remote start of engine and is advisable for installation to all type of vehicle (gas, diesel, TURBO engine, LPG engine). Duration and start time of the remote start is possible to set up. The system has relay outputs for central lock connection and control, 2x engine-cut output, foot-brake sensing for doors lock at turn ON ignition, sequential output for optical alerting and 2x AUX time adjustable outputs.

PACKING

• control unit • 2-stage shock sensor • antenna • LCD trasmitter with pager + case • switch pin • interior temperature sensing • siren • engine-cut relay • cable ties • RPS module • battery 1.5V AAA

I. SYSTEM INSTALLATION

Disassemble plastic cover of car dashboard. Find wires for car alarm connecting. Use a digital multimeter for function test of wires in the vehicle as well as if you know the function of wire. After wires designation disconnect accumulator of vehicle and connect cable harness of the car alarm to wires need for correct functionality according to attached schemata. Solder up all wiring and isolate. After finish of the car alarm instalation connect accumulator of vehicle and plug-in a fuse to fuse cover of the car alarm. Checkout correct functionality of the car alarm as well as electrical instalation of vehicle (ignition, direct indicators, ...). Fit plastic cover of car dashboard.

Control unit, RPS module and antenna placement

Place the control unit inside of dashboard. Stick antenna and RPS module on front window of vehicle.

Attention: Outputs of the control unit have (without output on direct indicators and central) maximum allowable current loading 300mA. For bigger current loading use additional feature (R1215, IMO 15). Direct indicators can be loaded maximum on 2x5A.

CONNECTOR CN1 (6-PIN) - INPUTS AND OUTPUTS CONNECTOR

1. White (+) Starter (output wire)
Connect this wire to the starter wire in the vehicle (50).
2. Black (-) Ground (input wire)
Connect this wire to a clean, paint-free sheet metal location (driver kick panel).
3. Blue (+) Ignition 1 (output/input wire)
Input/output wire for ignition sensig INPUT for ignition sensing /wire no. 15 in car/ and OUTPUT when the remote start is activated.
4. Green (+) Ignition 3 (output wire)
Output for ACC / this output alarm is activated 1 min after remote start.
5. Red (+) Power supply +12V (innput wire)
Must be connected to a high current source. Since the factory supplies (+)12V to the key switch. That is used to operate the motor, it is recommended that these wire be connected there
6. Yellow (+) Ignition 2 (output wire)
Output for some car witch need 2 ig /15/
This wire is output only (dont start the alarm after connection, when the caralarm is activated). During remote start is on this wire +12V.
Attention: At any vehicle types can become a short interruption or stop of engine run at turn ignition off in reservation mode. In this case is necessary to change yellow and blue wires connection.

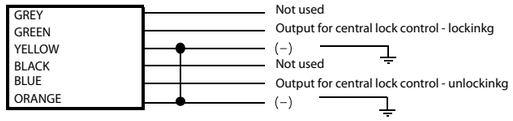
CONNECTOR CN2 (5-PIN) - OUTPUTS CONNECTOR

1. White (+) Direction indicators (output wire)
Connect to direction indicators wire (+).
2. White (+) Direction indicators (output wire)
Connect to direction indicators wire (+).
3. Orange (+/–) Trunk open (adjustable output wire)
This output is used to trunk unlock. If you change to (-) jumper 3 of the control box, orange wire will output (-). Default setting is (+).
Additional Ignition output: If you change to ON 1-3 of the program menu, orange wire will output at the remote start.
4. Brown (+) Siren (output wire)
Connect this wire to the (+)wire of the siren.
5. Green (–) Bypass (output wire)
This come in one second before ignition on and continues until one second after ignition off. (Use the immobilizer bypass module or LPG relay.)

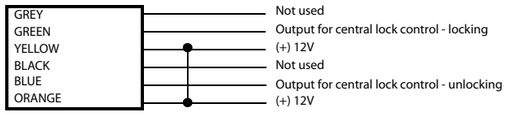
CONNECTOR CN3 (6-PIN) - CENTRAL LOCK CONNECTION

The central lock connects according to these wire diagrams depends on central lock type of vehicle.

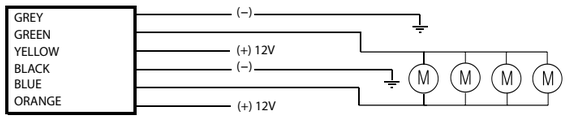
Central lock control by negative impulse



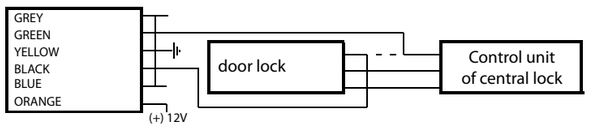
Central lock control by positive impulse



Direct connection to actuators of central lock



Pneumatic central lock connection



CONNECTOR CN4 (8-PIN) - CAN BUS MODULE CONNECTION M CAN

M CAN module is assigned for vehicles with CAN BUS link, where get available data that convert on analogue outputs for correct functionality. The module M CAN obtains the informations about opened doors, hood, trunk, and turning ignition ON. Using by this module the system is possible to control by original remote control of vehicle. The LCD transmitter is used as pager in this case.
Notice: If you don´t desire to control the system by original remote control, cut blue and white wire of M CAN module.

CONNECTOR CN5 (12-PIN) - INPUTS AND OUTPUTS CONNECTOR

1. White (–250mA) Engine-cut output 1 (optional)
Connect on engine-cut circuit by added relay. This wire supplies a (-)250mA ground as long as the system is armed. But kill out is not outputted at the remote starter.
And this output ceases as soon as the system is disarmed
Attention: Never interrupt any wire other than the starter wire.
Notice: This output can by used for connection of additional modules (ex. power window closing). In this case use 1 Amp diode.
2. Black (–250mA) Dome light (output wire)
Connect this wire to the optional dome light supervision relay. This output activates the dome light on 30 sec at disarm. When turned ON of 4-5, dome light is changed to armed output, dome light output is changed to always output during arming.
Attention: This output is only intended to drive a relay. It cannot be connected directly to the dome light circuit, as the output cannot support the current draw of one or more bulbs.
3. Brown (–250mA) AUX1 (output wire)
Auxilliary output AUX1 is activated by transmitter. The output time is possible change in 3-5 of the program menu.
4. Green (–) Trunk open sensing (input wire)
This input will respond to a negative input with an instant trigger. Also this wire connect to trunk pin switch.
5. Grey (–) Hood open sensing (input wire)
This wire must be connected to hood pin switch. This input will disable or shut down the remote start when the hood is opened. It will also trigger the security system if the hood is opened while the system is armed. This wire can be used to (-) Brake sensing.
6. Blue (–/+) Doors open sensing (input wire)
Connect to a wire showing ground when any door is opened. In any vehicles is necessary to to use individual door trigger by 1A diode.
Polarity change of sensing: The input polarity is possible chanche by jumper 2 in control unit and a wire to connect where is +12V at opened doors (ex. Ford). The input is adjustable to negative pulse sensing.
7. Red (+) Alternator sensing (input wire)
Connect to the Lamp terminal of the generator This wire must be inputted (+) when engine of the vehicle is starting (on wire where is less then 5V and power supply 9-14V at turning ignition ON). Don't connect this wire in case noise mode or tach pulse sensing.
8. Yellow (impulse) Tach pulse sensing (input wire)
This wire connect to tachometer sensing wire or ignition coil (-) wire and so on. Therefore connect to wire that pulse is outputted when engine is operated. And this wire don't connect in case noise mode or alternator sensing
9. Light-blue (–250mA) AUX2 (input wire)
Auxilliary output AUX2 is activated by transmitter. The output time is possible change in 3-6 of the program menu..
10. Pink (–250 mA) Sequential output wire
Connect to warning light switch (impulse wire) for optical alarm.
11. Violet (+ /–) Glow plug sensing for diesel (input wire)
In diesel vehicles it is necessary to interface with the wire that turns on the "wait to start light" in the dashboard. This wire illuminates the bulb until the vehicle's glow plugs are properly heated. When the light goes out the vehicle can be started. This wire is always available at the connector leading to the bulb in the dashboard. It can also be found at the engine control module (ECM) in many vehicles.
Polarity change of sensing: The input polarity is possible chanche by jumper 1 in control unit and a wire to connect where is (–) at glow plug. The input is atjustable on positive pulse sensing.
12. Orange (+) Foot-brake sensing (input wire)
This wire must be connected to the vehicle's brake light wire. This is wire that shows (+) 12V when the brake pedal is pressed. The remote start will be disabled or shut down any time the brake pedal is pressed. (-)Brake sensing can be used instead of #5 (-)Hood sensing wire of the CN 5.

CONNECTOR CN6 (3-PIN) SHOCK SENSOR CONNECTION

Inputs shorter than 0.6 seconds will trigger the warning (1st stage), while inputs longer than 0.6 seconds will trigger full alarm during 30 sec (2nd stage).

CONNECTOR CN7 (4-PIN) - RPS, DIGITAL CONTROL MODULE

The system is possible arm/disarm by RPS module. The system will disarm by setting of 4-digits secure code. If the secure core is set-up incorrect 5x, the RPS will disable. module is arm/disarm By the RPS module is possible ON/OFF valet mode and to call a driver.

RPS module operating:

1) System activation by RPS module

1. Press the switch one time in the standby mode, LED blinks one time and the display segment is rotated fast. (This function is maintained for 30 seconds). If the button is pressed to 30 sec., the activation is canceled.
2. Knock the sensor more than 5 times after get off the car within 30 seconds and close the all doors, then door will be locked

2) System deactivation by RPS module

1. Knock the sensor more than 5 times at the standby mode. (The call function is operated one time at the first knock.)
2. During the numbers automatically count with delay each 2 seconds from 0 to 9, knock the sensor at the registered CODE. Then selected number blinks 5 times and it automatically repeat next number from "0".
3. Set-up all 4 digits of code according to step 2. If the code is correct, the car alarm will disarm.

Attention: : If you input a wrong code 5 times within one hour, "U" is marked and all functions are stopped for one hour. If you press the button, this function is canceled.

3) Secret code setting

1. Press the button 20 times at standby mode and then LED blinks 2 times.
2. Knock the sensor more than 5 times within 30 seconds. During the numbers automatically count with delay each 2 seconds from 0 to 9, knock the sensor at a number you want. Then selected number blinks 5 times and it automatically repeat next number from"0". And if you input consecutively all 4 numbers as upper STEP 2, a new code is inputted.

If you want to change the secret CODE, you have to just repeat STEP 1 -2.

Attention: User´s secret code must be registered by user. (Factory setting code is "1234").

RPS module installation:

1. Connect 4 pin connector to main control box.
2. Installation location: First of all, stick the sticker on the inside the windshield of the wheel and stick the control module on that sticker.

CONNECTOR CN8 (5-PIN) - ANTENNA CONNECTION

The best location for the receiver/antenna is centered on left of the front windshield. The antenna should be mounted horizontally.
Attention: Metallic window tint can also affect range, so this should be a consideration when determining the mounting location.

Antenna installation:

1. Clean the mounting area with a quality glass cleaner or alcohol to remove any dirt or residue.
2. Plug the 5 pin cable into the receiver/antenna.
3. Mount the receiver/antenna using the supplied double-sided tape.
4. Plug the receiver/antenna cable into the main control unit.

CONNECTOR CN9 (2-PIN) - ADDITIONAL VALET BUTTON (optional)

The Valet button should be accessible from the driver's seat. It plug in to the connector on the side of the main control unit. (Additional valet button is not included in pack, valet button is in RPS module).

CONNECTOR CN10 (2-PIN) - LED CONNECTION (optional)

Mountain the LED indicator in a visible location such as dash or console. Plug the LED into the control module. LED is not included in pack (LED is in RPS module).

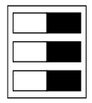
CONNECTOR CN11 (3-PIN) - ADDITIONAL SENSOR CONNECTION

Input for additional sensor connection - ultrasonic (UL 100, T ULT), microwave (MWS 2), tilt (TIL 200). (Additional sensors are not included in pack).

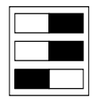
II. SWITCH AND JUMPER SETTINGS IN CONTROL UNIT

1) SET UP A START SENSING

Start sensing is fixed up alternator signal input in the default setting.
(A) Alternator sensing: DIP 1 = OFF, DIP 2 =OFF, DIP 3 = OFF = alternator
Red LED indicator signalling.
This is used when you want lengthen operation time of the start motor in case you install alternator sensing method.(Turn to the right if you want lengthen operation time.)



(B) Noise sensing: DIP 1 = ON, DIP 2 = OFF, DIP 3 = OFF = noise
Red LED indicator signalling.



Vehicles that noise is sensed is do not use noise sensing mode when you turn to "ON" IG key with engine is not started. Noise check method is that you have to see RED LED of main control PCB. This LED must be become "ON" only when engine is started. If LED is become "ON" when engine is not started, you must use another method(alternator, tach pulse sensing).

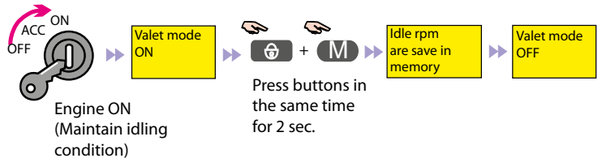
(C) Tach pulse sensing: DIP 1 = OFF, DIP 2 = OFF, DIP 3 = ON = tach signal
Yellow LED indicator signalling..

The sensing of engine run by Tach signal needs to set-up idle RPM (RPM setting for remote start).
RPM setting: Start-up vehicle, set-up valet mode , press buttons 🔒 + M in the same time over 2 sec., idle RPM will save to control unit, leave valet mode.

2) GEAR TYPE SETTINGS

If the vehicle has a automatic gear then cut brown wire W1 in control unit. If the wire is cutted then is possible the remote start anywhere. If the wire is not cutted is necessary the reservation mode the set-up before remote start.
If the vehicle has manual gear the wire must stay uninterrupted.

III. RPM SETTING FOR REMOTE START



The engine must have idle RPM at setting (600-700RPM). RPM setting is necessary if the information about engine ON for remote start will obtain from Tach signal (yellow wire, connector CN5).

IV. WIRE DIAGRAM

CN 1	4 Green	1 White
	5 Red	2 Black
	6 Yellow	3 Blue

1: (+) Starter - output (30A)
2: (–) Ground - output
3: (+) Ignition 2 - output (30A)
4: (+) Ignition 3 - output (30A)
5: (+) Power supply +12V - input
6: (+) Ignition 1 - output (30A)

CN 2	1 White	1: (+) Direction indicators - output (10A)
	2 White	2: (+) Direction indicators - output (10A)
	3 Orange	3: (+/–) Trunk open / additional ignition output (10A)
	4 Brown	4: (+) Siren - output (2A)
	5 Green	5: (–) Bypass - output (250mA) (LPG relay)

CN 3	1 Grey	1: NC
	2 Green	2: COM — Lock Output
	3 Yellow	3: NO
	4 Black	4: NC
	5 Blue	5: COM — Unlock Output
	6 Orange	6: NO

CN 4 — module M CAN

CN 5	7 Red	1 White
	8 Yellow	2 Black
	9 Blue	3 Brown
	10 Pink	4 Green
	11 Violet	5 Grey
	12 Orange	6 Blue

1: (–) Engine-cut output 1 (250mA)
2: (–) Dome light (250mA)
3: (–) AUX1 (250mA)
4: (–) Trunk sensing
5: (–) Hood sensing
(–) Brake sensing
6: (–/+) Door sensing - input
7: (+) Alternator sensing - input
8: (–) Tach pulse - input
9: (–) AUX2 - output (250mA)
10: (–) Sequential output (250mA)
11: (+/–) Glow plug sensing - input
12: (+) Brake sensing

CN 6 — 2-stage shock sensor

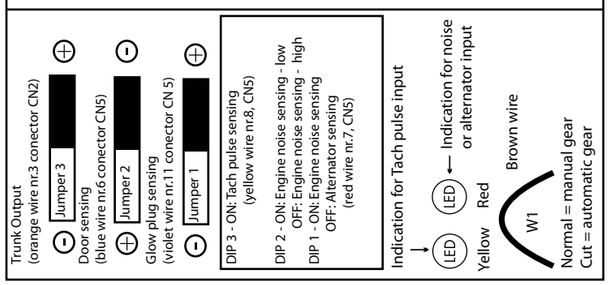
CN 7 — Locking, Unlocking, Driver call sensor, Valet mode

CN 10 — LED

CN 11 — Additional sensor

CN 8 — Antenna

CN 9 — Additional valet button (optional)


Trunk Output (orange wire nr.3 conector CN2)
Jumper 3
Door sensing (blue wire nr.6 conector CN5)
Jumper 2
Glow plug sensing (violet wire nr.11 conector CN 5)
Jumper 1
DIP 3 - ON: Tach pulse sensing (yellow wire nr.8, CN5)
DIP 2 - ON: Engine noise sensing - low
OFF: Engine noise sensing - high
DIP 1 - ON: Engine noise sensing
OFF: Alternator sensing (red wire nr.7, CN5)
Indication for Tach pulse input
Indication for noise or alternator input
LED
LED
Yellow
Red
Brown wire
W1
Normal = manual gear
Cut = automatic gear

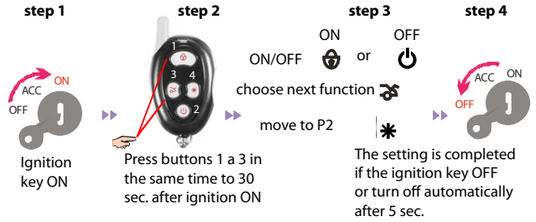
V. SYSTEM FUNCTIONS PROGRAMMING

The programming for 2-way and 1-way transmitter is different During programming, the car alarm must be OFF.
Procced for functions setting in program table in next steps for 2-way and 1-way transmitter differently:

LCD transmitter with 2-way communication

Step 1: Press button F 3x
Step 2: Select program menu P-1, P-2, P-3, P-4 by button M
Step 3: Choose desired function by pressing of button
Step 4: Set-up function by button (ON) or button (OFF)
Step 5: Save the setting to control unit and finish programming by button F press

Transmitter with 1-way communication
One-way transmitter can be change only in P-1 a P-2 of the program menu. Program menu step is marked by chirp sound (ex: Menu 1-1 = 1x , 1-2 = 2x , ..)



PROGRAM TABLE

Program menu	LCD display	P-1 Remote start	Factory default (Press button 1 or 2)	Optional
1-1	tur	Auto turbo protection	**OFF**	ON
1-2	StL	Door re-lock after remote start	**OFF**	ON
1-3	ACC	Trunk output change	**OFF**	ON
1-4	LPG	LPG reservation mode	**OFF**	ON
1-5	Atr	Auto reservation mode	**ON**	OFF
1-6	Het	Glow plug sensing at remote start	**OFF**	ON
1-7	tEm	Cold & Hot start	**OFF**	ON
1-8	IGt	Output "ignition 2" at the disarm	ON	**OFF**

Program. menu	LCD display	P-2 Basic function	Factory default (Press button 1 or 2)	Optional
2-1	CCH	Digital code valet mode	**OFF**	ON
2-2	IGL	Ignition lock/unlock	**OFF**	ON
2-3	PSA	Passive arming	**OFF**	ON
2-4	PSL	Passive lock	**OFF**	ON
2-5	LdA	Last door arming	**OFF**	ON
2-6	CHP	Chirp sound	**ON**	OFF
2-7	dUP	Double unlocking pulse	**OFF**	ON
2-8	dLP	Double locking impulse	**OFF**	ON

Program. menu	LCD display	P-3 Timing settings	Factory default (Press button 1 or 2)	Optional
3-1	Stt	Run time for remote start	2 10 **15** 25 35 45 (Minutes)	
3-2	Std	Remote start delay	**4** 8 12 15 18 20 (Sek.)	
3-3	Sto	Start impulse time	**0.4** 0.5 0.7 1.0 1.4 2.0 (Sec.)	
3-4	CSt	Cold start temperature settings	-4 -8 -12 -16 **-20** -24 (°C)	
3-5	Au1	Aux 1 output (LCH=Continue)	**1** 5 10 20 40 LCH (Sec.)	
3-6	Au2	Aux 2 output (LCH=Continue)	**1** 5 10 20 40 LCH (Sec.)	
3-7	ttt	Turbo time setting	1 **2** 3 5 8 10 (Minutes)	
3-8	Amd	Arm delay time setting	**5** 10 15 25 35 45 (Sec.)	

Program. menu	LCD display	P-4 Advanced functions	Factory default (Press button 1 or 2)	Optional
4-1	SPo	Siren pulse output	**OFF**	ON
4-2	AEd	Automatic engine disable	**OFF**	ON
4-3	Lot	Unlock pulse	0,5 sec.	3,5 sec.
4-4	BPs	Arm reminder	**OFF**	ON
4-5	dom	Dome light is changed to armed output	**OFF**	ON
4-6	SAC	SMART acces mode ON/OFF	**OFF**	ON
4-7	CAS	Locking pulse	As unlock	20 sec.
4-8	Acd	Arm cancel mode at door open	**OFF**	ON

PROGRAM MENU (P-1) - REMOTE START

1-1 Auto turbo protection
If this function is ON, the function maintains engine ON after the door is locked. The turbo time is possible to change at program menu 3-7.

1-2 Door re-Lock after remore start (installation only)
If this function is ON, The car alarm will lock doors automatically after remote start ending. This function is necessary to activate at vehicles, where the central lock wil unlock after turn ignition OFF.

1-3 Trunk output change (installation only)
If this function is ON, (+) will always output at the remote start (orange wire nr.3, connector CN2).

1-4 LPG reservation mode (optional)
If this function is ON, the engine will turn OFF automatically within 30 sec., if LPG in gas line is empty when the engine turn OFF.
(This function is operated when you install LPG gas valve ON/OFF relay).

1-5 Auto reservation mode
If this function is ON, the reservation mode for remote start run always after turn ignition OFF (The engine stays ON till last door closing - max. 2 min.).
If this function is OFF, the reservation mode is possible a manual activation (see user manual - reservation mode for vehicle with manual gear).

1-6 Glow plug sensing at remote start (installation only)
If this function is ON, starter motor is operated after glow plug is OFF at the remote start. For this function is necessary to connect violet wire nr. 11 (connector CN5).

1-7 Cold & Hot start
If this function is ON, engine automatically start if temperature become under -20° C or more then +50°C at the arm mode. The cold start temperature is possible set-up from -4 to -24°C (program menu 3-4). The engine ON duration is depend of function setting 3-1. This function is automatically OFF after total 8x operation.

1-8 Output "Ignition 2" at the disarm (installation only)
If this function is OFF, output "Ignition 2" is OFF at the disarm during remote start.

PROGRAM MENU (P-2) - BASIC FUNCTIONS

2-1 Digital code valet mode
If this function is OFF, the valet mode is operated to ON/OFF if you press the valet button for 5 seconds at the ignition key ON.
If this function is ON, set the security code at valet mode activation.
Digital code valet mode activation:
1. Press the switch for 5 seconds when the digital control module is standby mode, and then LED blinks one time and the display segment is rotated fast. (This function is maintained for 30 seconds.).
2. Knock the sensor more than 5 times after get off the car within 30 seconds, then the digital code start count. (If you press the switch again within 30 seconds LED blinks 2 times and digital valet function is canceled).
3. During the numbers automatically count with delay each 2 seconds from 0 to 9, knock the sensor at the registered CODE. Then selected number blinks 5 times and it automatically repeat next number from "0".
4. Select the remainder 3 CODES as upper STEP 3. If you select all CODES in order, valet mode is ON. If you want to cancel the valet mode, press the valet button for 5 seconds at the ignition key ON.

2-2 Ignition lock/unlock
When turned ON, the doors will be locked when step on brake after the ignition is turned ON. The doors will be unlocked when the ignition is turned OFF. Getting on the vehicle during remote start: Door is locked when ignition key ON and then step on the brake.

2-3 Passive arming
When turned ON, the system will arm automatically after 30seconds if the ignition key is OFF and door open/close.

2-4 Passive lock
When turned ON: When the system is arm by passive arming, door lock will be automatically operated.

2-5 Last door arming
When turned ON, if all door is closed at the disarm, door lock will be operated with arm after 30 seconds.

2-6 Chirp sound
In the default setting, siren of the vehicle will output chirp sound when you operate transmitter.

2-7 Double unlocking pulse (installation only)
If this function is ON, each door unlock = 2 impulses. The function is activated, when unlock impulse is setting on 0,5 sec. (program menu 4-3).

2-8 Double locking pulse (installation only)
If this function is ON, each door lock = 2 impulses. The function is activated, when unlock impulse is setting on 0,5 sec. (program menu 4-3). If locking pulse is setting in 20 sec., the first impulse is 0,5 sec and the second is 20 sec.

PROGRAM MENU (P-3) - TIMING SETTINGS

3-1 Run time for remote start
This function adjusts run time of the vehicle at remote start, cold start and time reservation time.

3-2 Remote start delay
This function adjusts delay at remote start, delay time from turn ignition ON to engine start.

3-3 Start impulse time (installation only)
Time setting of start impulse (at remote start by tach or noise sensing).

3-4 Cold start temperature settings
Minimal temperature setting for start of Cold & Hot program. The function Cold & Hot start must be ON (1-7).

3-5 Aux 1 output (installation only)
Duration of Aux1 output setting. If CLH is adjusted, Aux1 output is constant (the autput will be activated till disarm by transmitter).

3-6 Aux 2 output (installation only)
uration of Aux1 output setting. If CLH is adjusted, Aux1 output is constant (the autput will be activated till disarm by transmitter).

3-7 Turbo time setting
Turbo time setting for auto turbo timer programm (1-1). Default setting is 2 min.

3-8 Arm delay time setting
Arm delay time delay of sensing for doors, trunk, hood and ignition. Shock sensor will work 20 sec. after delay time.

PROGRAM MENU (P-4) - ADVANCED FUNCTIONS

4-1 Siren pulse output
In the default setting, siren will be continually outputted for 30 seconds when alarm is operated. When turned ON : Siren will be outputted to pulse

4-2 Automatic pulse disable
When turned ON, starter kill will be automatically outputted 30 seconds after ignition OFF with LED blink slowly.

4-3 Unlock pulse (installation only)
If this function is ON, unlocking impulse length is 3,5s. If this function is OFF, unlocking impulse length is 0,5s.

4-4 Arm reminder
If this function is ON, the car alarm will sound 2x, after each open and close door over 10 sec., it reminds that is OFF. If the function 2-3 or 2-5 is ON, The reminder doesn´t work.

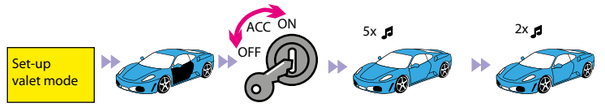
4-5 Dome light is changed to armed output (installation only)
If this function is ON and car alarm is armed, output for dome light is turned ON constantly (–) (black wire nr.2, connector CN5).

4-6 SMART access mode ON/OFF
When turned ON, LCD display ACCESS icon. And the main control unit sense the transmitter when transmitter is near by vehicle, the system will be automatically disarm (Unlock). If the transmitter is far from vehicle, the system will be arm. If you use this function, the transmitter battery life will be short.

4-7 Locking pulse
If this function is ON, locking impulse length is 20 sec. If the function is OFF, locking impulse is the same as unlocking impulse.

4-8 Arm cancel mode at door open
When turned ON, if the door is open, arm is not operated by transmitter. In this case, you can operate arm after closing the door.

VI. TRANSMITTERS LEARNING



Set-up a valet mode. Open the vehicle door and turn ignition ON/OFF 8x or press the service button 8x. The system will delete all learned transmitters automatically. Learn the transmitter by button press of this transmitter. The system enables to learn max.4 transmitters (max. 2 LCD transmitters). The car alarm allows to add a new transmitter during alarm (if you loss or demage transmitter).

VII. VALET MODE (EMERGENCY DEACTIVATION)

Valet mode setting: Turn ignition ON and press button of RPS module for 5 sec. LCD transmitter sounds 1x and display shows "VALET". The system will work as central lock in this mode. The process for deactivation of valet mode is the same as for activation. LCD transmitter will sound 2x and "VALET" will disappear from display. Emergency deactivation has the same process (at loss or damage of transmitter).

VIII. SYSTEM RESET

Control unit reset: In valet mode, press buttons a in the same time over 2 sec. till 30 sec. from turn ignition OFF. All settings in menu will change to default.
Transmitter reset: After control unit reset is necessary to reset the transmitter too. Take out battery of transmitter, press and hold button **M** and in the same time return the battery to the transmitter.

TECHNICAL PARAMETERS	
Power supply	12V +/- 25%
Working temperature	-30°C to 70°C
Stand-by mode	10mA
Transfer frequency	433,92 MHz
Alarm duration	30 sec